QSC™

DDI-11

DataPort Accessory Card

INSTALLATION GUIDE

TD-000181-00
Preliminary

Instructions for the DDI-11 DataPort Accessory Card

I. INTRODUCTION

The DDI-11 DataPort Accessory Card is designed for use with QSC amplifiers equipped with a DataPort connector. It provide an easy way to exploit the features of the DataPort without using QSControl or an accessory.

Through a terminal block with eight screw clamps on the DDI-11, the DataPort offers these connections:

- Balanced input to Channel 1.
- Balanced input to Channel 2.
- Analog (signal) ground.
- Chassis ground.
- Standby control; connecting this terminal to chassis ground shuts off the power supply, except on ISA Series amplifiers.
- +15 volts (at up to 300 mA), except on ISA and the original PowerLight Series* amplifiers.

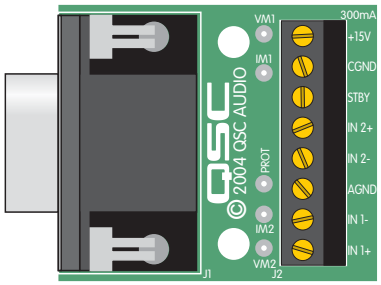

Figure 1. *The DDI-11 and its control/monitoring connections.*

The screw clamp terminals can accept stranded wire as large as 17 AWG (1 mm^2) or solid wire as large as 16 AWG (1.5 mm^2).

The DDI-11 card mounts onto the DataPort connector on the back of the amplifier and secures to the amplifier with two screws. A small sheet of insulative fish paper protects the underside of the card.

To guard against oxidation, corrosion, or contamination, the circuit board is treated with non-toxic protectants. Therefore, it may have a slight odor and a slightly oily-feeling residue. Do not wash the protectant off the circuit board.

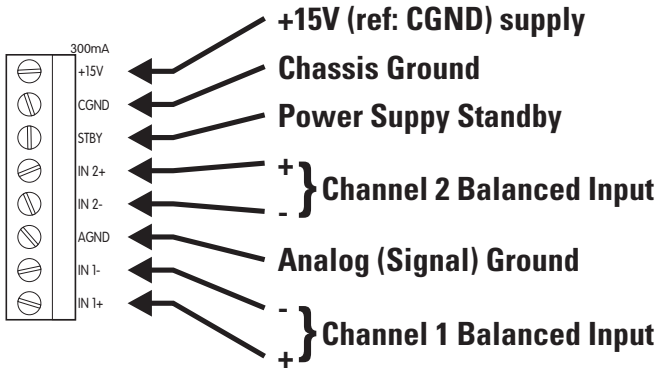

Figure 2. *Eight screw clamp terminals offer connections for inputs, remote on/off control, and a 15-volt DC supply.*

INPUTS

Each channel of the amplifier has a balanced input connection on the terminal block (see Figure 2). Each input comprises two terminals, + (in polarity) and - (out of polarity). For optimum immunity to noise, use a balanced connection whenever it is possible.

For an unbalanced connection, connect the signal conductor of the cable to the + input and the shield to the - input; also, connect a short jumper wire between the - input and the analog ground terminal.

With the amplifier channel at full gain, the input sensitivity (for 8-ohm loads) of the DataPort input is approximately 3 volts rms (+11.8 dBu).

ON/OFF CONTROL

A switch closure between the chassis ground and the standby terminals will put the amplifier's power supply in standby. Opening the closure will restart the power supply, with no inrush current surge. The standby terminal is isolated through a diode, so you can gang together any number of amplifiers equipped with DDI-11 cards to be controlled by a single switch closure. ISA Series amplifiers, however, do not have this feature.

POWER SUPPLY

The +15 volt output is referenced to the chassis ground terminal and will provide up to 300 mA to power custom accessories or other devices. The output is protected from short circuits or excessive current draw by a self-resetting polyswitch fuse.

The +15 volt terminal on ISA and original PowerLight Series* amplifiers, however, cannot provide enough current to power external circuitry. Doing so may collapse an ISA amplifier's internal low-level supply rails or burn out a series resistor on the input board of an original PowerLight amplifier.

II. ALTERNATE USES

The DDI-11 may also be used to connect to any DataPort connector on QSControl MultiSignal Processors and Basis products. Used this way, the DDI-11's four signal input terminals now become signal *outputs*, allowing you to use the audio signals for whatever purpose you require. The standby and power supply terminals cannot be used in this application.

** The original PowerLight Series comprises the models PL 1.0, PL 1.0^{HV}, PL 1.4, PL 1.5^{X}, PL 1.6^{HVX}, PL 1.8, PL 2.0^{HV}, PL 2.4^{MB}, PL 3.4, PL 4.0, PL 6.0^{PFC}, PL 6.0 II, and PL 9.0^{PFC}. It does not include the PowerLight 2 Series, which can be used to provide accessory power.*

III. INSTALLATION

The DDI-11 kit (QSC part # SG-000515-00) includes these items:

DDI-11 board
Two #4-40 × ¼" black screws
Installation guide

Use this procedure to install the DDI-11:

1. Turn off the amplifier.
2. Plug the card into the amplifier's DataPort. Use the two screws on each side of the DataPort to secure it; do not overtighten them.
3. To attach wires to the DDI-11 terminal strip, strip about 5 mm (0.2") of insulation from the wire. Twist the exposed wire strands together and make sure there are no stray ones. Turn the screw on the terminal counterclockwise until you can fully insert the wire end into the terminal. Turn the screw clockwise until the terminal clamps the wire securely. Repeat for all the wires needed. The terminal can accept stranded wire up to 17 AWG (1 mm^2) or solid wire up to 16 AWG (1.5 mm^2) in size.
4. The amplifier is ready for use.

IV. WARRANTY AND DISCLAIMERS

QSC Audio Products, Inc. is not liable for any damage to speakers, amplifiers, or any other equipment that is caused by negligence or improper installation and/or use of the DDI-11 DataPort Accessory Card.

PRODUCT WARRANTY

QSC Audio Products, Inc. ("QSC") guarantees its products to be free from defective material and / or workmanship for a period of three (3) years from date of sale, and will replace defective parts and repair malfunctioning products under this warranty when the defect occurs under normal installation and use - provided the unit is returned to our factory or one of our authorized service stations via pre-paid transportation with a copy of proof of purchase (i.e., sales receipt). This warranty provides that the examination of the return product must indicate, in our judgment, a manufacturing defect. This warranty does not extend to any product which has been subjected to misuse, neglect, accident, improper installation, or where the date code has been removed or defaced. QSC shall not be liable for incidental and/or consequential damages. This warranty gives you specific legal rights. This limited warranty is freely transferable during the term of the warranty period.

The customer may have additional rights, which vary from state to state.

In the event that this product was manufactured for export and sale outside of the United States or its territories, then this limited warranty shall not apply. Removal of the serial number on this product, or purchase of this product from an unauthorized dealer, will void this limited warranty.

Contact us at 800-772-2834 (USA only) or +1 (714) 957-7150, or visit our Web site at **www.qscaudio.com**

TECHNICAL ASSISTANCE

If you suspect that your DDI-11 card is defective, check your system configuration and onnections to determine the origin of the problem. In many cases, incorrect audio interfacing, poor cabling, or other system level impairments are the causes of problems in audio systems. For technical assistance beyond the information given in this manual, contact the QSC Technical Services department.

FACTORY SERVICE

If your DDI-11 card ever requires factory service, contact the QSC Technical Services department for return instructions and a Return Material Authorization (RMA) number. QSC is not responsible for products returned without an RMA number.

PRODUCT RETURN GUIDELINES

1. Pack the product securely for protection during shipment. QSC will provide factory packaging free of charge, on request.
2. Include a photocopy of the sales receipt, along with your name, return address, phone number, and a description of the problem.
3. Call QSC Technical Services department for an RMA number.
4. Write the RMA number on the outside of the shipping package.
5. Ship the product prepaid to QSC Audio Products. We recommend United Parcel Service (UPS).

QSC Technical Services
1665 MacArthur Blvd.
Costa Mesa, CA 92626 USA

Telephone:	(800) QSC AUDIO [(800) 772-2834] *USA only* +1 (714) 957-7150 +1 (714) 754-6175
Fax:	+1 (714) 754-6173
E-mail:	tech_support@qscaudio.com
Web:	www.qscaudio.com

QUALIFIED SERVICE CENTERS

QSC maintains a service center network for your convenience. If you choose to return your product to a local service center and need a referral, contact QSC Technical Services department. Accessories, input modules, and other peripheral QSC products must be returned to the factory for service.

INTERNATIONAL SERVICING

For QSC products purchased outside the United States, refer service to the distributor or dealer from which the product was purchased. There are numerous service centers in many countries. Your dealer, distributor, or QSC Technical Services can refer you to a service center in your country.

QSC Audio Products, Inc., 1675 MacArthur Boulevard Costa Mesa, California 92626 USA PH: (714) 754-6175 FAX: (714) 754-6174

QSControl is a trademark of QSC Audio Products, Inc. "QSC" and the QSC logo are registered with the U.S. Patent and Trademark Office.